

CLAIMS

1. Set of motor-driven instruments to aid the fixing of dental implants
5 that comprise a series of atraumatic bone osteotomes of progressive diameters, with these motor-driven osteotomes designed for their assembly to motor-driven or manual-drive connectors, characterised in that:
 - the osteotomes (4A, 4B, 4C, 4D) have an apical end (10) followed by
10 a threaded conical section (9) and a threaded cylindrical section (8), with the threaded cylindrical section capped by an adjustment area (7) in which the connectors are assembled (14, 17),
 - the set of instruments comprises a very narrow, quadrangular-section
15 starter drill (1) shorter in length and smaller in section than the osteotomes, comprising an end (6) for its connection to a surgical motor,
 - the set of instruments comprises at least two drills (2, 3) of different
20 diameters that comprise ends for connection to a surgical motor, and which is used alternately with the osteotomes,
 - the set of instruments includes connectors (14, 16) for the motor-driven or manual-drive operation of the osteotomes.
- 25 2. Set of motor-driven instruments to aid the fixing of dental implants according to claim 1, wherein the adjustment area (7) of the osteotomes comprises a polygonal-section projection (13), preferably hexagonal, which is capped by a cylindrical projecting section that creates a circular recess in which an O-ring seal (11) is housed.

3. Set of motor-driven instruments to aid the fixing of dental implants according to claim 1, wherein the connectors (14, 17) present an end comprising a blind axial recess (12) with a polygonal section, preferably hexagonal, in which is housed the polygonal section (13) of the osteotomes 5 incorporating the O-ring seal (11) that retains the connectors.
4. Set of motor-driven instruments to aid the fixing of dental implants according to claims 1 or 3, wherein the connector (14) possesses motor functions and comprises an extension (6) for its connection to a surgical motor.
- 10 5. Set of motor-driven instruments to aid the fixing of dental implants according to claims 1 or 3, wherein the connector (17) possesses extractor functions and comprises a coupling area (15) for connection to a ratchet wrench.
- 15 6. Procedure to facilitate the fixing of dental implants wherein during said fixing process the set of motor-driven instruments according to the preceding claims is used.